

'DQD^L %DUWRQ^L DQG^L *DU^L 5LCH^L ±^L 8◀ 6◀^L (3\$^L 5HJLRQ^L L
6HSWPEHU^L ← ☼^L ±^L !! ♣ →^L
3DJH^L ±^L RI^L †^L

x^L 2Q^L \$XJXW^L ± ← ☼^L ±^L !! ♣ → ☼^L FKUDFWHULJDVLRQ^L VDPSCH^L ZHUH^L FROCHFWHG^L IRU^L DFFXPXODVHG^L V
ELQV◀^L 7KH^L UH/XQW^L ZLOO^L EH^L LQFOXGH^L LQ^L WKH^L 6HSWPEHU^L ORQVKO^L 5HSRUM◀^L

x^L 5RXWLG^L RSHUDVLRQ^L DQG^L FDLQVHQDQFH^L ♂ 2 0☐☼^L LQIOXHQW^L VDPSOLQJ☼^L DQG^L HI IOXHQW^L VDPSOLQJ
\$XJXW^L ± † ☼^L ±^L !! ♣ → ◀^L 7KH^L LQIOXHQW^L DQG^L HI IOXHQW^L ZDVHU^L TXDOLM^L GDWD^L IRU^L WKH^L \$
HYHQW^L ZLOO^L EH^L SUHMHQVHG^L LQ^L WKH^L 6HSWPEHU^L ORQVKO^L 5HSRUM◀^L L 5HFHQW^L LQIOXHQW^L ICRZ^L U
ILHOG^L GDWD^L DUH^L VXPPDULJHG^L LQ^L 7DECH^L ± ◀^L

x^L 2Q^L \$XJXW^L † ♣ ☼^L ±^L !! ♣ → ☼^L DQ^L HWKQRO^L GHOLYHU^L ZDV^L UHFHLYHG^L DV^L WKH^L \$6%^L 7UHDWPHQW^L
L

&8^L DQG^L '6^L

x^L 2Q^L \$XJXW^L ♣ ☼^L ±^L !! ♣ → L DQG^L \$XJXW^L ♣ ↑ ☼^L ±^L !! ♣ → ☼^L OLPH^L GHOLYHULHV^L ZHUH^L UHFHLYHG^L

x^L 2Q^L -XO^L ♣ ☼^L ±^L !! ♣ → ☼^L \$NODQVLF^L 5LFKILHOG^L VXEPLWWHG^L VR^L 8◀ 6◀^L (3\$^L D^L :DWH^L OD
1RALILFDVLRQ^L /HWHU^L IRU^L GLVSRVO^L RI^L +'6^L *HQHUVHG^L 6ROGV^L GXULQ^L WKH^L ,QVHULP^L &RPEL
♂ ,&7☐^L GHFRQWUDVLRQ◀^L L :DWH^L ZDV^L VKLSSHG^L RI I† VLVH^L RQ^L \$XJXW^L † ☼^L ±^L !! ♣ → ☼^L \$
± !! ♣ → ☼^L \$XJXW^L ♣ † ☼^L ±^L !! ♣ → ☼^L \$XJXW^L ♣ † ☼^L ±^L !! ♣ → ☼^L \$XJXW^L ± ♣ ☼^L ±^L !! ♣ → ☼^L
\$XJXW^L † !! ☼^L ±^L !! ♣ → ◀^L

x^L 2Q^L \$XJXW^L † ☼^L ±^L !! ♣ → ☼^L \$NODQVLF^L 5LFKILHOG^L LQIRUPHG^L 8◀ 6◀^L (3\$^L WKDW^L LW^L ZDV^L O
UHTXLUHPHQW^L SXW^L LQ^L SODFH^L LQ^L UHVSQMH^L WR^L WKH^L &UXVKHU^L 5RDG^L VORSH^L LQVDELOVM◀^L L 7KL
RQ^L WKH^L VORSH^L UHSDLU^L SHUIRUPHG^L E^L WKH^L /5:48%☼^L RQJRLQJ^L VXUHI^L FRQVWULQJ^L GDWD^L ZKLFK
IXUWKHU^L PRYHPHQW^L DQG^L YLVXDO^L REVHUYDNRQ^L LQGLFDVLRQ^L QR^L DSSUHFLDECH^L VORSH^L PRY
DSSUR[LFDWHO^L -XGH^L ☼^L ±^L !! ♣ → ◀^L 7KH^L H[FOXVLRQ^L JRGH^L UHTXLUHPHQW^L ZHUH^L GHVWLGH^L LQ^L
+D]DUGXV^L &RQGLVLRQ^L 5HVSQMH^L 3ODQ^L ±^L &UXVKHU^L 5RDG^L 6ORSH^L ,QVDELOVM^L OHPHQW^L GDWHG^L OD

x^L 2Q^L \$XJXW^L ☼^L D^L !PQRU☼^L CHDN^L ZDV^L UHSDLUHG^L LQ^L WKH^L 39&^L UHWLUQ^L ICRZ^L OLQH^L FRQYH
WUHDWPHQW^L ZDVHU^L IURP^L WKH^L VXSSOHPHQW^L VOXGJH^L GHZDWHULQJ^L ELQV^L EDFN^L WR^L 3RQG^L †
DMHU^L WKH^L CHDN^L ZDV^L GLVFRYHUHG◀^L L 1RQH^L RI^L WKH^L WUHDWVHG^L ZDVHU^L WUDYHOHG^L PRUH^L V
WKH^L SRLQV^L RI^L WKH^L CHDN^L RU^L UDFKHG^L L/HYLDVNDQ^L &UHN◀

x^L)LHOG^L GHFRQWUDVLRQ^L RI^L \$PHQGHQW^L 1R◀^L ±^L VR^L WKH^L ,QVHULP^L &RPELQHG^L \$FLG^L 'UDLQJH
,QYHWALJDVLRQ^L :RUN^L 3ODQ^L EHJDQ^L WKH^L ZHN^L RI^L -XO^L ↑ ☼^L ±^L !! ♣ → ◀^L L 7KH^L ZHN^L DVALYLV
WR^L 8◀ 6◀^L (3\$^L DUH^L DV^L IROORZV^L L

R^L -XO^L ±^L ☼^L ±^L !! ♣ → L WKURXJK^L \$XJXW^L † ☼^L ±^L !! ♣ → L ZHN^L VXPDU^L SURYLGH^L E
± !! ♣ → L IURP^L \$NODQVLF^L 5LFKILHOG^L VR^L 8◀ 6◀^L (3\$◀^L

R^L \$XJXW^L ↑ ☼^L ±^L !! ♣ → L WKURXJK^L \$XJXW^L ♣ ♣ ☼^L ±^L !! ♣ → L ZHN^L VXPDU^L SURYLGH^L
♣ † ☼^L ±^L !! ♣ → L IURP^L \$NODQVLF^L 5LFKILHOG^L VR^L 8◀ 6◀^L (3\$◀^L

R^L \$XJXW^L ♣ ± ☼^L ±^L !! ♣ → L WKURXJK^L \$XJXW^L ♣ ← ☼^L ±^L !! ♣ → L ZHN^L VXPDU^L SURYLGH^L
± † ☼^L ±^L !! ♣ → L IURP^L \$NODQVLF^L 5LFKILHOG^L VR^L 8◀ 6◀^L (3\$◀^L

R^L \$XJXW^L ♣ ☼^L ±^L !! ♣ → L WKURXJK^L \$XJXW^L ± ↑ ☼^L ±^L !! ♣ → L ZHN^L VXPDU^L SURYLGH^L
† !! ☼^L ±^L !! ♣ → L IURP^L \$NODQVLF^L 5LFKILHOG^L VR^L 8◀ 6◀^L (3\$◀^L

x^L 2Q^L \$XJXW^L ♣ → ☼^L ±^L !! ♣ → ☼^L D^L SKRQH^L XSGDWH^L RI^L WKH^L ,QVHULP^L &RPELQHG^L 7UHDWPHQW^L 'HF
ZLVK^L \$NODQVLF^L 5LFKILHOG☼^L 8◀ 6◀^L (3\$☼^L DQG^L /DKRQVQ^L 5HJLRQD^L :DWH^L 4XDOLM^L &RQVRO^L %

x^L 2Q^L \$XJXW^L ♣ ← ☼^L ±^L !! ♣ → ☼^L D^L GLHMD^L GHOLYHU^L ZDV^L UHFHLYHG^L DV^L WKH^L +'6^L 7UHDWPHQW^L 3O

x^L &RPSOLDQFH^L VDPSOLQJ^L ZDV^L FRPSCHVHG^L RQ^L \$XJXW^L ± ± ☼^L ±^L !! ♣ → L IRU^L WKH^L +'6^L 7UHDWPHQW^L 3O
HI IOXHQW^L &8'☼^L DQG^L '6◀^L)CRZ^L UDWH^L UHFRRUG^L IRU^L WKH^L &8'☼^L '6☼^L DQG^L WUHDWVHG^L ZDV

'DQD^L %DUWRQ^L DQD^L *DU\^L 5LCH\^L ±^L 8◀ 6◀^L (3\$^L 5HJLRQ^L ◀^L
6HS\WPEHU^L ← ☼^L ±^L !! ♣ →^L
3DJH^L †^L RI^L †^L

+ '6^L 7UH\DPHQW^L 3ODQW^L DUH^L LQFOXGH^L LQ^L 7DECH^L † ◀^L \$^L V\PPDU\^L RI^L WKH^L + '6^L 7UH\DPHQW^L 3
GDWD^L IRU^L \$XJXW^L ± !! ♣ →^L LV^L SUHMHQWH^L LQ^L 7DECH^L † ◀^L 7KH^L DQDOWLFDO^L UH\XOW^L I
VDPSOLQJ^L HYHQW^L DUH^L SUHMHQWH^L LQ^L 7DECH^L † ◀^L

x^L 2Q^L \$XJXW^L ± † ☼^L ± !! ♣ → ☼^L \$VODQWLF^L 5LFKILHOG^L SURYLGH^L DQ^L HPDLO^L WR^L /5:48%^L DQD^L 8◀ 6
ZDVHU^L WLDQV\IHUJ^L IURP^L 3RQG^L ± 6^L WR^L 3RQG^L †^L ZHUH^L EHLQJ^L GLVFRQWLQXHG^L GXH^L WR^L UHGXFALRQ^L
VROLGV^L LQ^L WKH^L + '6^L 7UH\DPHQW^L 3ODQW^L 8DULILHU◀^L

6LWH† ZLGH^L

x^L :RUN^L FRQWLQXHG^L RQ^L XSGDWLQJ^L WKH^L /HYLDWVQD^L OLQH^L 3URVFW^L 'D\DEDVH^L ZLWK^L GDWD^L IURP^L \$VODQ
DQD^L YDULXV^L DJHQFLHV◀^L

x^L &RQWLQXHG^L URDG^L FDLQWHDQFH^L DFALYLWLHV^L RQ^L WKH^L 1HYDGD^L DQD^L 8DOLIRUQLD^L \$FFHW^L 5RDG^L LQFO
WR^L PLQLPLJH^L ZMK^L ERDUG◀^L

x^L 2Q^L \$XJXW^L ♣ † ☼^L ± !! ♣ → ☼^L D^L FRQIHUHQFH^L FDOO^L ZDV^L FRGGXFWHG^L ZLWK^L WKH^L 8◀ 6◀^L (3
SURJUH^L XSGDWH◀^L

\$&7,9,7,(6^L)25^L 83&20,1*^L 0217+^L

\$VSHQ^L 6HS^L

x^L &RQWLQXHG^L RSHUDWLRQ^L RI^L WKH^L \$6%^L 7UH\DPHQW^L 6\WHP^L LQ^L UHFLUXDWRQ^L FRGH^L DQD^L FRQWLQXHG^L P
FDLQWHDQFH^L LWHPV^L RXWQLQHG^L LQ^L WKH^L DFQGH^L 5\$:3◀^L

x^L &RQWLQXHG^L VROLGV^L FDDJHPHQW◀^L

x^L &RPSCHWH^L SUHAXUH^L UHOLHI^L YDOYH^L ♂ 359◻^L UHSDPHHQW^L RQ^L SURSDQH^L WQDQ^L † !! † 7.† !! → ◀^L

x^L &RPSCHWH^L \$VSHQ^L 6HS^L &RCHFWLRQ^L \$UH^L GDLDQJH^L LPSURYHPHQW◀^L

&8^L DQD^L '6^L

x^L &RQWLQXHG^L + '6^L 7UH\DPHQW^L 6\WHP^L URWLQHG^L 2 0^L RI^L WKH^L + '6^L 7UH\DPHQW^L 6\WHP^L DV^L RXWQL
5\$:3◀^L

x^L 'UDLQ^L DQD^L FQDQ^L FODULILHU◻^L OLPH^L VOXGJH^L PL[^L WQDQ◻^L UHDFWU^L WQDQ◻^L DQD^L HIIOXHQW
GFRQWUDWRQ^L VHWLQJ◀^L

x^L 'LVSVMH^L RI^L GZDWHUHG^L VOXGJH^L LQ^L GZDWHUHQJ^L ELQ◀^L

6LWH† ZLGH

x^L &RQWLQXHG^L WR^L SURYLGH^L SURVFW^L SURJUH^L XSGDWH^L WR^L WKH^L 8◀ 6◀^L (3\$^L YLD^L FRQIHUHQFH^L
FRQIHUHQFH^L FDOO^L LV^L FXUHQVO\^L VFKGXCH^L IRU^L 6HS\WPEHU^L ♣ ☼^L ± !! ♣ → ◀^L

x^L &RQWLQXHG^L URDG^L ZRUN^L DV^L ZHO^L DV^L FDLQWHDQFH^L RI^L %WV^L ODQJHPHQW^L 3UDFWLFH^L ♂ %03V◻^L IRU
FDDJHPHQW◀^L

, I^L \RX^L KDYH^L DQ\^L TXHWLRQ^L RU^L FRPPHQW◻^L SO\DMH^L IHQ^L IUHH^L WR^L FRQDFW^L FH^L DM^L ♂ † † → ◻
\$QWKRQ\◻ %LRZQ#ES◻ FRP◻^L

'DQD %DUWRQ DQG *DU\ 5LCH\ ± 8 6 (3\$ 5HJLRQ
6HSWPEHU ← ☼ ± !! ¶ →
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7DECH ¶ ± \$VSHQ 6HS %LRU-DWRU 7U-DWPHQW 6\WHP ± &RPSOLDQFH 6DPSCH 5HXOW
7DECH ± ± \$VSHQ 6HS %LRU-DWRU 7U-DWPHQW 6\WHP ± 5HFDQ)CRZ S+ DQG 253)
7DECH † ± &KQQH 8GGHUGDLO☼ 'HOW 6HS☼ DQG +6 7U-DWPHQW 3ODQ ±)CRZ 5DWH
7DECH † ± +LJK 'HQMLM 6OXGJH 7U-DWPHQW 3ODQ ± 2SHUDWRQDQ 'DWD 6XPPDU
7DECH † ± +LJK 'HQMLM 6OXGJH 7U-DWPHQW 3ODQ ± &RPSOLDQFH 6DPSCH 5HXOW

L
FF L L L 'RXJOD &DUH\☼ /DKRQDQ 5HJLRQDQ :DWHU 4XODVM &RQURO %RUG
6FRWW)HJXVRQ☼ /DKRQDQ 5HJLRQDQ :DWHU 4XODVM &RQURO %RUG
5RQDOG +DOMH\☼ \$WDDQWLF 5LFKILHOG &RPSDQ
1DVKDQ %CRFN☼ %3
-DFN ODUHULVRQ☼ \$WDDQWLF 5LFKILHOG &RPSDQ
5HJLRQDOG ,CDR☼ \$WDDQWLF 5LFKILHOG &RPSDQ
\$GDP &RKHQ☼ (VT☼ 'DYLVL *UDKDP L 6XKEEV //3
'DYH OF&DUWK\☼ &RSSHU (QYLLRQPHQWDO &RQXONLQJ
ODUF /RPEDUG☼ \$PHF)RWWHU :KHCHU (QYLLRQPHQW ,QIUDWUXFWXUH☼ ,QF
6DQG 5LHM☼ (Q6FL☼ ,QF

7%/(L ¶
 \$63(1^L 6((3^L %,25(\$&725^L 75(\$70(17^L 6<67(0^L + L &203/, \$1&(L 6\$03/(L 5(68/76
 \$8*867^L ± !! ¶ → L 0217+/^L 6800\$5<
 'UDW^L + L 3URYLVLRQD^L 'DVD

3DUDPHWHU	%DMLV	-XO\ L ± ← ¶ L ± → ¶ \$63() \$6% ^L)LOWLDWH ♂ PJ↑ /□	\$X¶XW- ¶ → ¶ L ↑ ± → ± \$63() \$6% ^L)LOWLDWH ♂ PJ↑ /□	\$XJ¶W- ± T ¶ L ± → T \$63() \$6% ^L)LOWLDWH ♂ PJ↑ /□	OD¶LPXP ^L ¶ 'LVFKDWH ^L &ULWHULD ^L ♂ PJ↑ /□	\$YHLDJH ^L 'LVFKDWH ^L &ULWHULD ^L ♂ PJ↑ /□
S+ ^L ♂ V¶ X¶ □)LHGG	→ ¶ ±	→ ¶ ← ¶	¶	¶ →	±
\$OXPLQXP	'LVWROYH	!! ¶	!! ¶	!! ¶	¶ ←	± ←
\$UMHQL	'LVWROYH	!! ¶ !!	L !! ¶	!! ¶ !!	!! ¶	!! ¶
&DGPLXP	'LVWROYH	L !! ¶	L !! ¶	L !! ¶	!! ¶ !	!! ¶ !
&DCFLXF	'LVWROYH	± ←	T ±	± ←	±	±
&KCRULG	7RND	±	T	T	±	±
&KLRPLXP	'LVWROYH	L !! ¶	L !! ¶	!! ¶ !!	!! ¶	!! ¶
&RSSHL	'LVWROYH	!! ¶ !!	!! ¶ !!	!! ¶ !!	!! ¶	!! ¶
+DUGGHM	'LVWROYH	¶ !!	¶ T	¶ ¶	± ←	¶ ←
,UR	'LVWROYH	!! ¶	!! ¶	!! ¶	± ←	¶ ←
/HDC	'LVWROYH	L !! ¶	L !! ¶	L !! ¶	!! ¶ ¶	!! ¶ !
ODJQHMLXP	'LVWROYH	←	¶ ¶		±	±
1LFNH	'LVWROYH	!! ¶ !!	!! ¶ !!	!! ¶ !!	!! ¶	!! ¶ !
6HCHQLXF	7RND	!! ¶ !!	!! ¶ !!	!! ¶ !!	13	!! ¶ !
6XOIDD	7RND	¶	¶ ←	¶ →	±	±
=LQF	'LVWROYH	!! ¶ !	L !! .	!! ¶ !!	!! ¶	!! ¶
\$FLGLV	7RND	L .	L .	L .	±	±
\$ONDOLQVM ^L ♂ %LFDUE	7RND	± T	± ↑	± ←	±	±
\$ONDOLQVM ^L ♂ &DUE	7RND	L .	L .	L .	±	±
\$ONDOLQVM ^L ♂ +\GLF	7RND	L ←	L ←	L ←	±	±
\$ONDOLQVM ^L ♂	7RND	T ↑	± !!	± T	±	±
7RND ^L 'LVWROYH ^L	7RND	± ↑	± ←	±	±	±
7RND ^L 6XVSHGGHG ^L 6RDLGV	7RND	± !!	¶ !!	¶ !!	¶ ± !!	±

1RWV

\$EELHYLDVLRQV

¶ S+^L YDOXH^L DUH^L | LHGG^L PHDMLPH^L
 DUH^L UHFRVWHG^L LQ^L WDDGEG^L XQLW^L
 ± 'LVFKDWH^L FULWHULD^L DGG^L EDMLV^L
 PD[LXP^L DGG^L DYHLDJH^L YDOXH^L DUH^L
 LQ^L WKH^L SHXHW^L IRU^L \$\$\$RYDO^L RI
 ORGL | LFDVLRQ^L VR^L WKH^L SHFRYDO^L \$FV
 WKH^L /HYLDVLRQ^L OLQH^L OPHRUDGGXP^L c
 (3\$Q^L ± ± !! !! ← □

± 8RQWLVXHQW^L WKDQ^L ZHUH^L GRW^L GHWHFWHG^L DUH^L OLWHG^L DV^L | | L DGG^L WKH^L UHFRVWHG^L OLPLW
 ± 'LVFKDWH^L FULWHULD^L GRW^L HWDEOLVKHG^L RU^L YDOXH^L GRW^L PHDMLPH^L
 - L ± SHXHW^L GRWHG^L ZLWK^L | - | DUH^L DQ^L HWDEOLVKHG^L YDOXH^L RU^L ZHUH^L GHV^L WKDQ^L WKH^L UHFRVWHG^L
 RU^L HTXD^L VR^L WKH^L PHVVRG^L GHWHFWLRQ^L OLPLW
 PJ↑ /L ± PLDOLJDPV^L SHU^L OLWHU
 13^L ± 1RW^L 3URFXQDWHG
 V¶ X¶ L ± WDDGEG^L XQLW

79% (L ±
 \$63(1^L 6((3^L %,25(\$&725^L 75(\$70(17^L 6<67(0^L +^L 5(&(17^L)/2:⊗^L S+⊗^L \$1'^L 253^L),(/'^L 0(\$685(0(176
 \$XJXWV^L ± !! ¶ →^L 0217+/^L 6800\$5<
 'UDW^L +^L 3URYLVLRQD^L 'DND

'DWH	SVSHQ ^L 6HS ^L %LRUHDWV ^L ,QIOXHQV			ODQKCH ^L ¶ ^L RU ^L ± σ%LRFHCO ^L ¶ ^L ,QIOXHQVIOXHQV ^L %LRFHCO ^L ,QIOXHQV			ODQKCH ^L ± ^L RU ^L ± σ%LRFHCO ^L ¶ ^L ± ^L σ ^L 1D2+ ^L GRMLQJ ^L CRFDWLRQ			ODQKCH ^L → ^L RU ^L ± σ%LRFHCO ^L ± ^L ± ^L (IIOXHQV ^L (IIOXHQV ^L			SVSHQ ^L 6HS ^L %LRUHDWV ^L		
	YORZ ^L σ JSP	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9	S+ ^L σ V X	253 ^L σ P9
!! ↑ ↓ → ← ↑ ↓	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
¶ !! ↑ !! ¶ ↓	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
¶ !! ↓ !! ¶ ↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
¶ !! → !! ¶ ←	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
¶ !! ← !! ¶ →	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
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3DUH^L T^L RI^L

79% (L +)
 +, * + L '(16, 7 < L 6/8 '* (L 75 (\$70 (17 L 3 / \$17 L + L 23 (5 \$7, 21 \$ / L '\$7 \$ L 6800 \$5 <
 \$8 * 867 L + !! ¶ → L 0217 + / < L 6800 \$5 <
 'UDM L + L 3URYLVLRQDO L 'DND

5HSRUWLQJ L 3HURG	7UDWV L :DWHU 'LVFKDWHG σ JDOORQV	/LPH L &RQ/PHG σ NLCRJUDPV	'LHMHO L)XHO L &RQ/PHG σ JDOORQV)CRFFXODQV L &RQ/PHG σ NLCRJUDPV	6OXGJH L :DWHG σ JDOORQV)LHMKZDWHU L &RQ/PHG σ JDOORQV
\$SULO L ¶ L + L \$SULO L T !! ¶	L + !! ¶ →	!!	!!	¶ ¶ T !! ↑	!! ◀ !!	!!
OD L ¶ L + L OD L T ¶ ¶ L	!! ¶ →	± ¶ ¶ !!	¶ T → T	¶ ¶ ¶ → T !!	± ¶ T !! ←	←
-XCH L ¶ L + L -XCH L T !! ¶	± !! ¶ →	± ¶ →	→ ¶ ¶ ¶ T	¶ T ¶ → T T	¶ ¶ ± ¶	T ◀ !! T
-XO L ¶ L + L -XO L T ¶ ¶	L + !! ¶ →	T ¶ T →	→ ¶ ↑ ← !!	± T ¶ ↑ ¶	± ¶ ¶ T	T T ◀ T !!
\$XJXW L ¶ L + L \$XJXW L T ¶	¶ L + !! ¶ →	T ¶ T	!! ¶ T ← !!	± T ¶ ± T T	± ¶ !! T T	T ◀ ↑ !!

7%/(L ↑
 +, *+L '(16,7<L 6/8)*(L 75(\$70(17L 3/\$17L + L &203/,\$1&(L 6\$03/(L 5(68/76L
 \$8*867L ± !! ¶ → L 0217+/<L 6800\$5<
 'UDM+ L 3URYLVLRQDOL 'DMD

3DUDFWHU	%DLV	\$XJXW- ± ± ± ± ± ± → &8' → T &KQQGH ^L 8QGHLGUDLQ PJ /	\$XJXW- ± ± ± ± ± ± → '6 → T 'HOMD- 6HS PJ /	\$XJXW- ± ± ± ± ± ± → +'6,1) → T '6L ,QIOXHQV PJ /	\$XJXW- ± ± ± ± ± ± → +'6(()) → T '6L (1IOXHQV PJ /	±OD[¶XP ^L ± 'LVFKUJH ^L &JLVHULD ^L ± PJ / □	'YHLDJH ^L 'LVFKUJH ^L &JLVHULD ^L ± PJ / □
S+L ♂ V X □)LHG	→ ◀	→ ◀	→ ◀	→ ◀	→ ◀	→ ◀
\$OXPLQP	'LVROYH	→	¶	±	!! ◀	→	± ◀
\$UHQJ	'LVROYH	!! ◀	!! ◀	→ ◀	!! ◀	!! ◀	!! ◀
&DGPLXP	'LVROYH	!! ◀	!! ◀	!! ◀	!! ◀	!! ◀	!! ◀
&DQFLXF	'LVROYH	±	± ◀	±	¶ !!	→	→
&KORJG	7RND	→ ◀	± ◀	→ ◀	↑ ◀	→	→
&KURPLXP	'LVROYH	!! ◀	!! ◀	!! ◀	L !! ◀	!! ◀	!! ◀
&RSSHL	'LVROYH	!! ◀	!! ◀	¶ ◀	!! ◀	!! ◀	!! ◀
+DUGQHM	'LVROYH	¶ !!	¶ !!	¶ !!	±	→	→
,UR	'LVROYH	→ ◀	¶	→ ±	L !!	→	¶ ◀
/HGG	'LVROYH	L !! ◀	L !! ◀	!! ◀	L !! ◀	!!	!! ◀
ODJHMLXP	'LVROYH	→	→	→	→	→	→
1LFNK	'LVROYH	± ◀	!! ◀	→ ◀	!! ◀	!! ◀	!! ◀
6HQQLXF	7RND	!! ◀	!! ◀	!! ◀	!! ◀	13	!! ◀
6XOIDD	7RND	± →	¶ ±	→ ±	→ ¶	→	→
=LQF	'LVROYH	!! ◀	!! ◀	!! ◀	!! ◀	!! ◀	!! ◀
\$FLGLA	7RND	¶ →	¶	→ ±	L .	→	→
\$ONDOLQVM ^L ♂ %LFDUE	7RND	L .	L .	L .	¶ .	→	→
\$ONDOLQVM ^L ♂ &DUE	7RND	L .	L .	L .	L .	→	→
\$ONDOLQVM ^L ♂ +\GLF	7RND	L .	L .	L .	L .	→	→
\$ONDOLQVM ^L ♂	7RND	L .	L .	L .	◀	→	→
7RNDOL- 'LVROYHG ^L	7RND	→ ±	± ±	→ ±	→ ±	→	→
7RNDOL- 6XVSHQGH- 6RQLGV	7RND	→ ±	¶ →	→ ¶	→ ¶	→	→

1RWV
 ¶ ◀ S+L YDQXV^L DUH^L |LHG^L PHDMXHHQW^L DQG^L DUH^L UH
 WDDGUG^L XQVW◀
 ± ◀ L 'LVFKUJH^L FULVHULD^L DQG^L EDMVL^L IRU^L PD[LXP^L DQ
 DUH^L OLWVHG^L LQ^L VKH^L SHTXHW^L IRU^L \$\$\$RYDO^L RI^L ORGL
 SHFRYDO^L \$AVLRQ^L DV^L VKH^L /HYLWVQD^L OLGH^L OHFRUDGXP^L
 (3\$) L ± !! → ◀ □

SEELHYLWLRQV
 8L ± &QXVWVHQW^L VQD^L ZHUH^L GRV^L GHVWVHG^L DUH^L OLWVHG^L DV^L | | L DQG^L VKH^L UHFRUW^L OLPLV
 -L ± SHXQW^L GRVHG^L ZLVK^L | -L DUH^L DQ^L HWLFDVHG^L YDQXH^L RU^L ZHUH^L CHW^L WQD^L VKH^L UHFRUW^L
 WQD^L RU^L HTXDO^L VR^L VKH^L PHVWVHG^L GHVWVLRQ^L OLPLV
 PJ | /L ± PLQDULDP^L SHU^L OLWV
 13L ± 1RW^L 3URPDQDWHG
 V X ◀ L ± WDDGUG^L XQVW